

# ABSTRACT

"Method of searching for an object within a space, method and system of vectorial cartography incorporating this search technique, electronic apparatus  
5       employing this method of vectorial cartography, and a medium for vectorial cartography data obtained by the said method"

A method of retrieving an object contained in a domain  $\delta$  within a space  $\Delta$   
10       containing a set of objects described in an initial matrix  $M$ , comprising construction of a subset  $\omega$  of objects contained in the said domain  $\delta$  by extracting a matrix  $\mu$  from the initial matrix  $M$ . A matrixing  $M$  of the space  $\Delta$  is created by superimposing a large number of geometric matrices with different specifications  $\rho$ , each one of the meshes of each geometric matrix being identified by a unique  
15       and specific numerical value called a matrix code.

The matrix  $M$  is sorted by matrix codes according to a predetermined order, with specifications  $\rho$ . Then the extraction matrix  $\mu$  is constructed, describing only the objects affected by the said meshes included in domain  $\delta$  or intersected by  
20       domain  $\delta$ .

See Fig. 1

Application in systems for vectorial cartography.